IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.	:	09/807,922	Confirmation No. 9298
Applicant	:	Friedrich BOECKING	
Filed	:	August 20, 2001	
TC/A.U.	:	3752	
Examiner	:	S. Ganey	
Docket No.	:	R.35955	
Customer No.	:	02119	

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Date: November 19, 2004

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97(h)(1), AND EXPLANATION OF THE RELEVANCE OF THE CITED PRIOR ART

Sir:

The undersigned hereby requests that the prior art cited on the attached prior art statement be placed of record in the application file.

This citation of prior art is made under 37 CFR 1.97(h)(1), since it is being filed after the mailing date of the Notice of Allowance.

This prior art citation is being submitted under 37 CFR 1.97 (h)(1) because the prior art did not come to the attention of the undersigned until a time such that 37 CFR 1.97 (e) precluded consideration under 37 CFR 1.97 (d).

The undersigned asserts that the prior art cited on the attached form 1449 has been compared to the allowed claims, and that in the opinion of the applicant as well as the undersigned, the prior art cited on this form 1449 does not render any of the claims unpatentable.

The relevance of the prior art cited on the attached form 1449 is as follows:

US 5,472,142

This patent teaches an accumulator fuel injection apparatus in which a nozzle element is divided into a first nozzle having one end side and a second nozzle having the other end side. The apparatus comprises a stopper for setting a maximum movement position of the first nozzle toward the second nozzle. A second pressure control chamber communicates with a first pressure control chamber and forms a predetermined space or interval through which the first nozzle and the second nozzle are spaced away from each other. This is done under the condition that the first nozzle is arranged at the maximum movement position. Also included is a delay apparatus for delaying the reduction of pressure within the first pressure control chamber due to the fact that fluid flows into a low-pressure chamber from the first pressure control chamber upon communication of the first pressure control chamber and the low-pressure chamber with each other. It is possible to easily perform operation of setting an amount of pre-lift of the nozzle needle which decides an injection rate, and operation of assembling constitutional elements thereof.

WO 98/25026

This patent teaches a device for reducing leaks and retarding the opening of constant pressure injection systems used in diesel engines. It is characterized by a control valve (25), returned by a valve spring (28), that is used as an actuator operating on the injecting needle (6) when the injecting nozzle (1) is closed. The control valve also closes the internal volume of the injecting nozzle holder (3) which communicates with the bottom of the injecting nozzle (1). This valve ensures, with the decompression orifice (27), the retarding of the opening of

the injecting nozzle (1) at the beginning of the injection controlled by the operation of the electro-valve (4). The device is particularly designed for completing and improving the quasi-constant pressure injection devices for diesel engines.

DE 35 16 870 A1

This patent teaches an accumulation type fuel injector which is provided with an injector body and a needle valve guide having its one end fixed to the injector body. A nozzle body is fixed to the other end of the needle valve guide. The nozzle body is formed with an injection port and with an accumulation chamber. A needle valve is disposed in the accumulation chamber and is guided by the needle valve guide. A valve member is fitted in the injector body, and a check valve is guided by the valve member. A high-pressure fuel supply conduit is in communication with the accumulation chamber such that the needle valve opens when pressure in the fuel conduit is reduced. A controller guided by the valve member opens the check valve at the end of the fuel injection and a control piston guided by the injector body closes the needle valve.

US 4,674,688

This patent is in the same family as DE 35 16 870 A1 and is provided as an aid to the examiner.

EP 0 745 764 A2

This patent teaches a fuel injection valve for internal combustion engines. A control device (15) regulates the adjustment movement of the injection valve component. It has a longitudinally displaceable control piston (30), which is activated by the fuel system pressure from the high pressure feed conduit (40,41) and also by the fuel control pressure in a control chamber (60). The control chamber is connected via a first control aperture with the high pressure feed conduit (40). The control pressure in the control chamber is controllable by the opening or closing of at least one second control aperture. For the control device, an electrically controllable operating component (5) is provided.

US 5,694,903

This patent is in the same family as EP 0 745 764 A2 and is provided as an aid to the examiner.

Again, it is requested that the prior art cited on the attached form 1449 be placed of record in the application file.

Respectfully submitted,

Ronald E. Greigg
Registration No. 31,517
Attorney for Applicant

GREIGG & GREIGG, PLLC
1423 Powhatan Street, Suite One
Alexandria, VA 22314
Telephone: 703-838-5500
Facsimile: 703-838-5554
REG/SLS/elb
J:\Bosch\R35955\04-11-17, R35955, IDS after NOA.wpd

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Docket Number (Optional)	Application Number
R.35955	09/807,922
Applicant(s) Friedrich BOECKING	
Filing Date 08-20-2001	Group Art Unit 3752

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,472,142	12-05-1995	Takashi IWANAGA			
		4,674,688	06-23-1987	Hiroshi KANESAKA			
		5,694,903	12-09-1997	Marco A. GANSER			

U.S. PATENT APPLICATION PUBLICATIONS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation YES	Translation NO
		WO 98/25026	06-11-1998	PCT				✓
		DE 35 16 870 A1	04-10-1986	Germany			✓	
		EP 0 745 764 A2	12-04-1996	European			✓	

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.